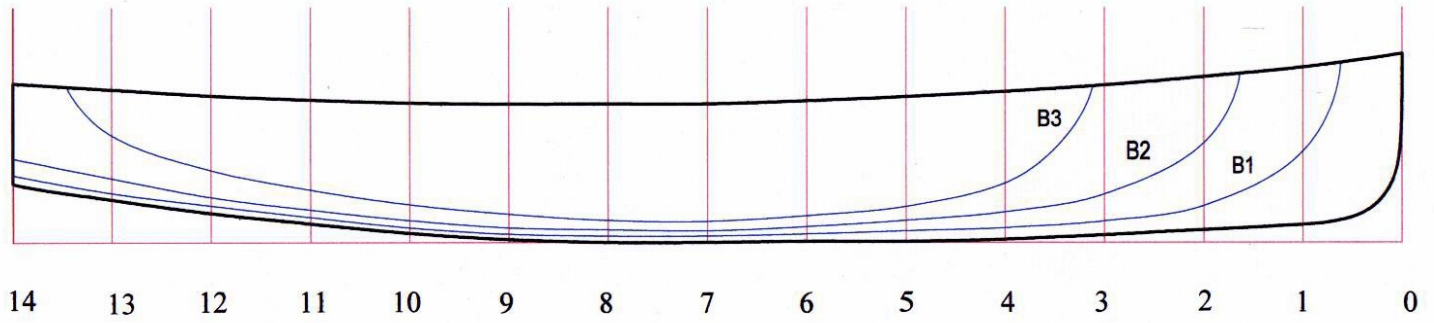
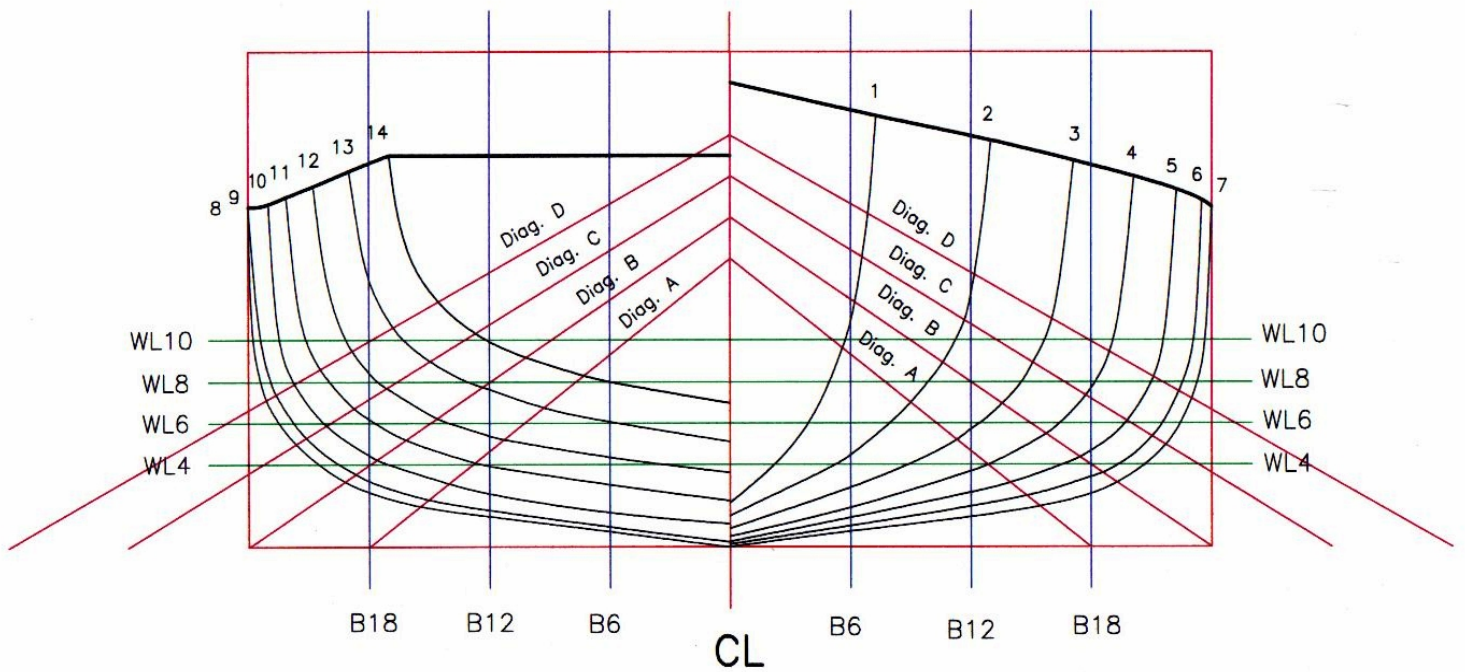


Blackfly

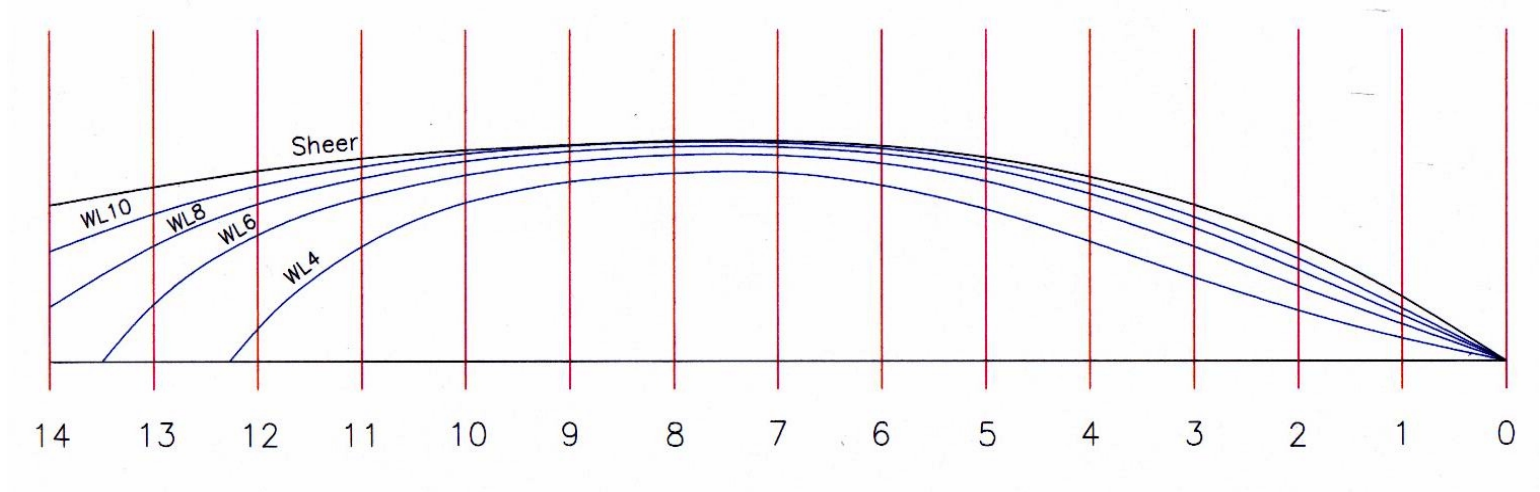
Stations are at 1' intervals



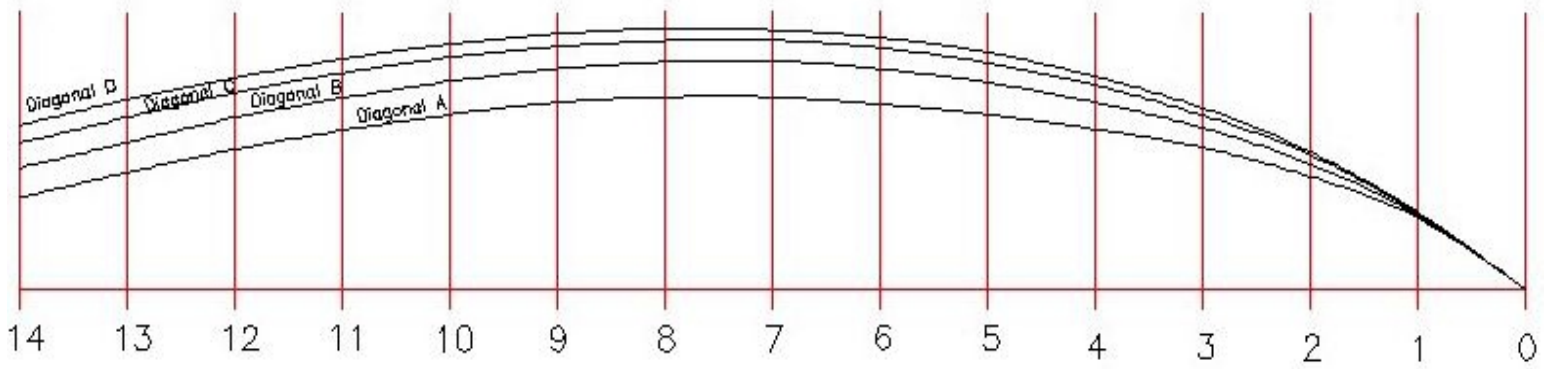
Profil



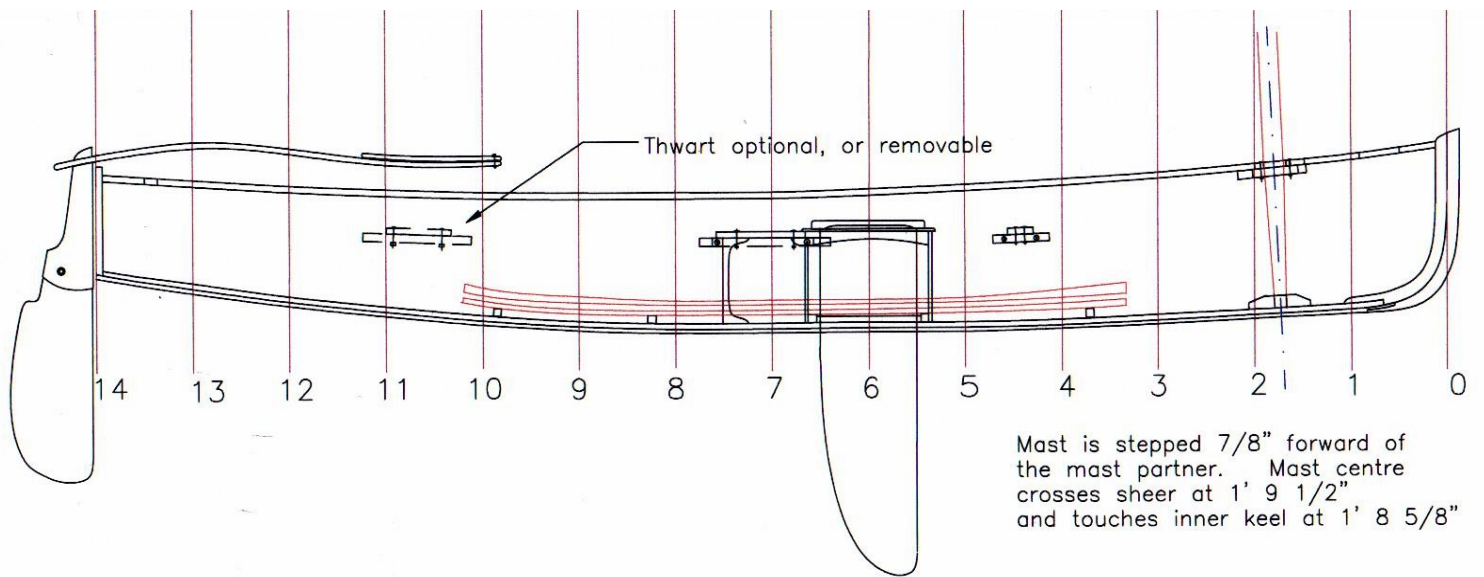
Body Plan (Sectional)



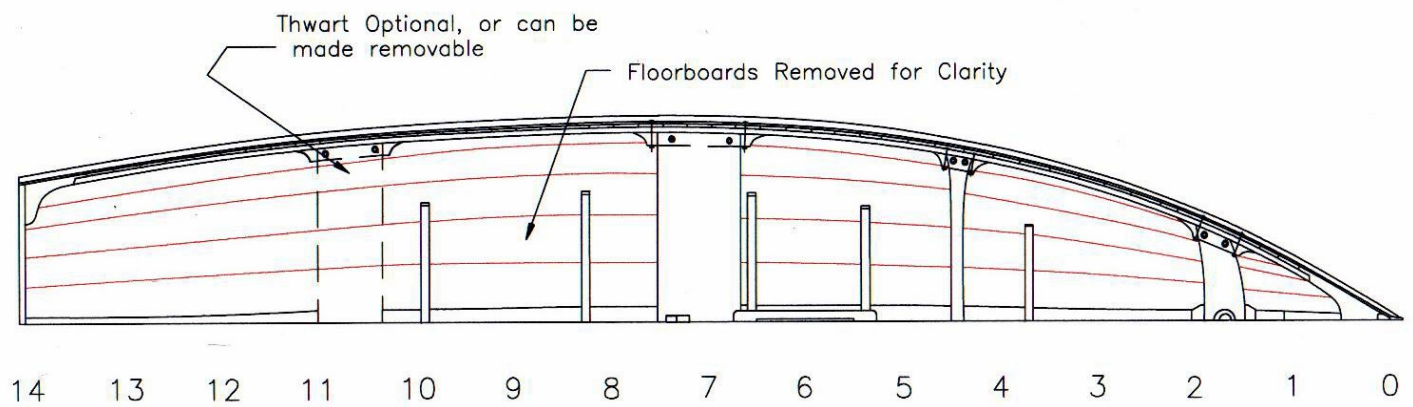
Halfbreadths



Diagonals



Construction Plan Profile



Construction Plan, aerial

Blackfly – Materials list, and Tables of Offsets

Recommended Construction method: Lapstrake plywood, as described in Iain Oughtred's book, Clinker Plywood Boatbuilding, Tom Hill's Ultralight Boatbuilding and John Brooks's How to Build Glued-Lapstrake Wooden Boats (all texts available through the WoodenBoat store at www.woodenboat.com).

Moulds do not need to be bevelled. Forward moulds should be located aft of the station marks on the strongback; aft moulds should be located forward of station marks.

Materials:

Keel, Inner-----	5/8" cherry, ash, or similar
Keel, Outer-----	1/2" cherry, ash...
Stem, Inner & Outer-----	1 1/2" laminated cherry, ash, doug fir, spruce or other
Transom-----	3/4" mahogany, butternut, spanish cedar, or similar (transom may also be built up from 3/16" ply and solid frame)
Planking-----	3/16" marine-grade okoume plywood, or similar.
Bottom planks (garboard, broadstrake and third plank) may be gotten out of 1/4" ply for added strength. If weight is not a concern, 1/4" may be used throughout.	
Rubrails-----	3/4" Cherry, ash...
Gunwale-----	5/8" X 3/4" Cherry, or similar
Sheer clamp (inwale)-----	1/2" X 5/8" spruce
Sheer clamp spacer blocks-----	3/8" spruce
Floor frames -----	1" White cedar
Breasthook-----	7/8" cherry, ash...
Quarter knees-----	5/8" Cherry, ash...
Mast thwart-----	7/8" Cherry, ash...
Middle thwart and support-----	3/4" Butternut, mahogany, or other lightweight wood. Thwart may be narrowed to save weight, but not reduced in thickness.
Canoe-style thwart, forward-----	7/8" X 2" cherry, ash...
Removable thwart (aft)-----	3/4" Butternut, mahogany or similar
Risers-----	3/4" cherry, ash...
Daggerboard trunk-----	3/16" ply panels, with cedar spacers and cherry (or other) braces & cap.
Rudder-----	5/8" mahogany, or similar
Daggerboard-----	3/4" mahogany, or similar
Tiller-----	5/8" laminated ash, cherry.....

Offsets

Offsets in feet- inches-eighths to the inside of the planking

Heights above baseline

Buttocks spaced at 6" intervals from CL

STA	Sheer	Butt18	Butt12	Butt6	Keel
0	1-10-2	-	-	-	0-11-0
1	1-8-7 +	-	-	0-10-7 +	0-2-1 +
2	1-7-6	-	0-11-7	0-4-3 +	0-1-4 +
3	1-6-6	-	0-5-6	0-2-6	0-0-7
4	1-6-0	0-7-5 +	0-3-5	0-1-6	0-0-4
5	1-5-3	0-4-5 +	0-2-5	0-1-3	0-0-2
6	1-4-7 +	0-3-3	0-1-7 +	0-1-0	0-0-1
7	1-4-5	0-2-4 +	0-1-3 +	0-0-6	0-0-0
8	1-4-4	0-2-5	0-1-4	0-0-6	0-0-0
9	1-4-4 +	0-3-3	0-1-6 +	0-1-0+	0-0-2 +
10	1-4-6	0-4-4	0-2-5	0-1-6+	0-1-1
11	1-5-0	0-6-2 +	0-3-7	0-3-0 +	0-2-2 +
12	1-5-3 +	0-8-5	0-5-3	0-4-3	0-3-5
13	1-6-1	1-0-6	0-7-5	0-5-7 +	0-5-1 +
14	1-7-0	-	0-10-0	0-8-0	0-7-0

Halfbreadths from CL

Waterlines spaced at 2 inch intervals, starting 4" above baseline at WL4

STA	Sheer	WL10	WL8	WL6	WL4
0	0-0-0	-	-	-	-
1	0-7-2	0-5-6	0-4-7 +	0-3-7	0-2-2 +
2	1-1-0	0-11-0 +	0-10-0	0-7-7	0-5-2 +
3	1-5-1 +	1-3-6 +	1-2-5	1-0-2	0-9-0
4	1-8-1 +	1-7-3	1-6-2	1-4-4	1-0-6 +
5	1-10-2 +	1-9-6	1-8-6	1-7-5 +	1-4-5 +
6	1-11-4	1-11-1 +	1-10-3	1-9-5	1-7-4 +
7	2-0-0	1-11-7	1-11-2	1-10-4	1-8-5 +
8	2-0-0	1-11-7	1-11-3	1-10-4	1-8-4
9	1-11-4	1-11-4 +	1-10-7	1-9-6	1-7-1 +
10	1-11-0 +	1-10-5 +	1-9-6 +	1-8-3	1-4-5
11	1-10-1	1-9-2 +	1-7-6 +	1-5-5	0-11-7
12	1-8-6	1-7-2	1-4-5	1-1-1	0-3-2
13	1-7-0	1-4-2	1-0-0	0-5-4	-
14	1-5-0	1-1-5	1-6-7 +	-	-

Diagonals

Diag. A – 1' 2" up on CL, 1' 6" out on baseline

Diag. B – 1' 4" up on CL, 2' out on baseline

Diag. C – 1' 6" up on CL, 2' 6" out on baseline

Diag. D – 1' 8" up on CL, 3' out on baseline

STA	Diag. A	Diag. B	Diag. C	Diag.D
0	-	-	-	-
1	0-7-1	0-7-4	0-7-5	0-7-7
2	0-11-3	1-0-6	1-1-5	1-1-7
3	1-2-3	1-4-3	1-5-5	1-6-3
4	1-4-2	1-7-0	1-8-6	1-9-5
5	1-5-6	1-9-0	1-11-1	2-0-1
6	1-6-6	1-10-3	2-0-4	2-1-5
7	1-7-5	1-11-2	2-1-3	2-2-2
8	1-7-4	1-11-1	2-1-2	2-2-4
9	1-7-0	1-10-3	2-0-5	2-1-7
10	1-5-6	1-9-1	1-11-4	2-0-7
11	1-4-1	1-7-3	1-9-7	1-11-3
12	1-2-2	1-5-4	1-8-0	1-9-4
13	0-11-6	1-2-7	1-5-3	1-7-2
14	0-9-2	1-0-2	1-2-6	1-4-5